JUL 2 6 2002 JUL 2 6 2002

SEQUENCE LISTING

(1) GENERAL INFORMATION:

(i) APPLICANT: H

Henrik Stender

Kaare Lund

Tina Anderson Hollerup

(ii) TITLE OF INVENTION: Novel Process For The Detection of Mycobacteria

(iii) NUMBER OF SEQUENCES: 123

(iv) CORRESPONDENCE ADDRESS:

(A) ADDRESSEE:

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(C) CITY:

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(D) STATE:

District of Columbia

(E) COUNTRY: USA

(F) ZIP:

20004

(v) COMPUTER READABLE FORM:

(A) MEDIUM TYPE: Floppy disk 3.5 inch

(B) COMPUTER: IBM PC compatible

(C) OPERATING SYSTEM: ASCII

(D) SOFTWARE: Microsoft Word

(vi) CURRENT APPLICATION DATA:

(A) APPLICATION NUMBER: 08/943,777

(B) FILING DATE: October 3, 1997

(vii) PRIOR APPLICATION DATA:

(A) APPLICATION NUMBER: 60/028,392

(B) FILING DATE: 10/15/96

(A) APPLICATION NUMBER: 60/029,595

(B) FILING DATE: 10/23/96

(A) APPLICATION NUMBER: 05/05/97

(B) FILING DATE: 05/08/97

(viii) ATTORNEY/AGENT:

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(ix) TELECOMMUNICATION INFORMATION:

(A) TELEPHONE: (202) 638-6666

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(2) INFORMATION FOR SEQ ID NO: 1:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 15 basepairs

(B) TYPE: nucleic acid basepairs

(C) STRANDEDNESS: single

(D) TOPOLOGY: linear

FEDERALD JUL 3 1 2002 TECH CENTER 1800/1000 (ii) SEQUENCE DESCRIPTION: SEQ ID NO: 1:

- AGATCGGGGT AGCAC 15
- (2) INFORMATION FOR SEQ ID NO: 2:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 15 basepairs
 - (B) TYPE: nucleic acid basepairs
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
 - (ii) SEQUENCE DESCRIPTION: SEQ ID NO: 2:

TGTTTTCTCC TCCTA 15

- (2) INFORMATION FOR SEQ ID NO: 3:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 15 basepairs
 - (B) TYPE: nucleic acid basepairs
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
 - (ii) SEQUENCE DESCRIPTION: SEQ ID NO: 3:

ACTGCCTCTC AGCCG 15

- (2) INFORMATION FOR SEQ ID NO: 4:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 15 basepairs
 - (B) TYPE: nucleic acid basepairs
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
 - (ii) SEQUENCE DESCRIPTION: SEQ ID NO: 4:

TGATACTAGG CAGGT 15

- (2) INFORMATION FOR SEQ ID NO: 5:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 15 basepairs
 - (B) TYPE: nucleic acid basepairs
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
- (ii) SEQUENCE DESCRIPTION: SEQ ID NO: 5:

CGGATTCACA GCGGA 15

- (2) INFORMATION FOR SEQ ID NO: 6:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 15 basepairs

- (B) TYPE: nucleic acid basepairs
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear
- (ii) SEQUENCE DESCRIPTION: SEQ ID NO: 6:

TCACCACCCT CCTCC 15

- (2) INFORMATION FOR SEQ ID NO: 7:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 15 basepairs
 - (B) TYPE: nucleic acid basepairs
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
- (ii) SEQUENCE DESCRIPTION: SEQ ID NO: 7:

TTAACCTTGC GACAT 15

- (2) INFORMATION FOR SEQ ID NO: 8:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 15 basepairs
 - (B) TYPE: nucleic acid basepairs
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
- (ii) SEQUENCE DESCRIPTION: SEQ ID NO: 8:
 ACTATTCACA CGCGC 15
- (2) INFORMATION FOR SEQ ID NO: 9:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 15 basepairs
 - (B) TYPE: nucleic acid basepairs
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
 - (ii) SEQUENCE DESCRIPTION: SEQ ID NO: 9:

CTCCGCGGTG AACCA 15

- (2) INFORMATION FOR SEQ ID NO: 10:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 15 basepairs
 - (B) TYPE: nucleic acid basepairs
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
- (ii) SEQUENCE DESCRIPTION: SEQ ID NO: 10
 GCTTTACACC ACGGC 15

- (2) INFORMATION FOR SEQ ID NO: 11:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 15 basepairs
 - (B) TYPE: nucleic acid basepairs
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
 - (ii) SEQUENCE DESCRIPTION: SEQ ID NO: 11:

ACGCTTGGGG GCCTT 15

- (2) INFORMATION FOR SEQ ID NO: 12:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 15 basepairs
 - (B) TYPE: nucleic acid basepairs
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
- (ii) SEQUENCE DESCRIPTION: SEQ ID NO: 12:
- (2) INFORMATION FOR SEQ ID NO:13:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 15 basepairs
 - (B) TYPE: nucleic acid basepairs
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
- (ii) SEQUENCE DESCRIPTION: SEQ ID NO: 13: CCGGTGGCTT CGCTG 15
- (2) INFORMATION FOR SEQ ID NO: 14:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 15 basepairs
 - (B) TYPE: nucleic acid basepairs
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
 - (ii) SEQUENCE DESCRIPTION: SEQ ID NO: 14:

ACTTGCCTTG TCGCT 15

- (2) INFORMATION FOR SEQ ID NO: 15:
 - (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 15 basepairs
- (B) TYPE: nucleic acid basepairs
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear
- (ii) SEQUENCE DESCRIPTION: SEQ ID NO: 15: GATTCGTCAC GGGC 15
- (2) INFORMATION FOR SEQ ID NO: 16:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 15 basepairs
 - (B) TYPE: nucleic acid basepairs
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
- (ii) SEQUENCE DESCRIPTION: SEQ ID NO: 16:
 AACTCCACAC CCCCG 15
- (2) INFORMATION FOR SEQ ID NO: 17:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 15 basepairs
 - (B) TYPE: nucleic acid basepairs
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
- (ii) SEQUENCE DESCRIPTION: SEQ ID NO: 17:
- ACTCCACACC CCCGA 15
- (2) INFORMATION FOR SEQ ID NO: 18:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 15 basepairs
 - (B) TYPE: nucleic acid basepairs
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
- (ii) SEQUENCE DESCRIPTION: SEQ ID NO: 18: ACCCCTTCGC TTGAC 15
- (2) INFORMATION FOR SEQ ID NO: 19:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 15 basepairs
 - (B) TYPE: nucleic acid basepairs
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear

- (ii) SEQUENCE DESCRIPTION: SEQ ID NO: 19: CTTGCCCCAG TGTTA 15
- (2) INFORMATION FOR SEQ ID NO: 20:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 15 basepairs
 - (B) TYPE: nucleic acid basepairs

- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear
- (ii) SEQUENCE DESCRIPTION: SEQ ID NO: 20: CTCTCCCTAC CGGCT 15
- (2) INFORMATION FOR SEQ ID NO: 21:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 15 basepairs
 - (B) TYPE: nucleic acid basepairs
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
- (ii) SEQUENCE DESCRIPTION: SEQ ID NO: 21: GATATTCCGG TCCCC 15
- (2) INFORMATION FOR SEQ ID NO: 22:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 15 basepairs
 - (B) TYPE: nucleic acid basepairs
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
- (ii) SEQUENCE DESCRIPTION: SEQ ID NO: 22: ACTCCGCCCC AACTG 15
- (2) INFORMATION FOR SEQ ID NO: 23:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 15 basepairs
 - (B) TYPE: nucleic acid basepairs
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
- (ii) SEQUENCE DESCRIPTION: SEQ ID NO: 23:

CTGTCCCTAA ACCCG 15

- (2) INFORMATION FOR SEQ ID NO: 24:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 15 basepairs
 - (B) TYPE: nucleic acid basepairs
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
- (ii) SEQUENCE DESCRIPTION: SEQ ID NO: 24:

TTCGAGGTTA GATGC 15

- (2) INFORMATION FOR SEQ ID NO: 25:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 15 basepairs
 - (B) TYPE: nucleic acid basepairs
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
- (ii) SEQUENCE DESCRIPTION: SEQ ID NO: 25: GTCCCTAAAC CCGAT 15
- (2) INFORMATION FOR SEQ ID NO: 26:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 15 basepairs
 - (B) TYPE: nucleic acid basepairs
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
- (ii) SEQUENCE DESCRIPTION: SEQ ID NO: 26: GGTGCACCAG AGGTT 15
- (2) INFORMATION FOR SEQ ID NO: 27:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 15 basepairs
 - (B) TYPE: nucleic acid basepairs
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
- (ii) SEQUENCE DESCRIPTION: SEQ ID NO: 27:

CTGGCGGGAC AACTG 15

- (2) INFORMATION FOR SEQ ID NO: 28:
 - (i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 15 basepairs

- (B) TYPE: nucleic acid basepairs
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear
- (ii) SEQUENCE DESCRIPTION: SEQ ID NO: 28:
 TTATCCTGAC CGAAC 15
- (2) INFORMATION FOR SEQ ID NO: 29:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 15 basepairs
 - (B) TYPE: nucleic acid basepairs
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
- (ii) SEQUENCE DESCRIPTION: SEQ ID NO: 29: GACCTATTGA ACCCG 15
- (2) INFORMATION FOR SEQ ID NO: 30:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 15 basepairs
 - (B) TYPE: nucleic acid basepairs
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
- (ii) SEQUENCE DESCRIPTION: SEQ ID NO: 30: GAAGAGACCT TTCCG 15
- (2) INFORMATION FOR SEQ ID NO: 31:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 15 basepairs
 - (B) TYPE: nucleic acid basepairs
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
- (ii) SEQUENCE DESCRIPTION: SEQ ID NO: 31: CACTCGAGTA TCTCC 15
- (2) INFORMATION FOR SEQ ID NO: 32:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 15 basepairs
 - (B) TYPE: nucleic acid basepairs
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
 - (ii) SEQUENCE DESCRIPTION: SEQ ID NO: 32:

ATCACCCACG TGTTA 15

- (2) INFORMATION FOR SEQ ID NO: 33:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 15 basepairs
 - (B) TYPE: nucleic acid basepairs

- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear
- (ii) SEQUENCE DESCRIPTION: SEQ ID NO: 33:

GCATCCCGTG GTCCT 15

- (2) INFORMATION FOR SEQ ID NO: 34:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 15 basepairs
 - (B) TYPE: nucleic acid basepairs
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
 - (ii) SEQUENCE DESCRIPTION: SEQ ID NO: 34:

CACAAGACAT GCATC 15

- (2) INFORMATION FOR SEQ ID NO: 35:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 15 basepairs
 - (B) TYPE: nucleic acid basepairs
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
 - (ii) SEQUENCE DESCRIPTION: SEQ ID NO: 35:

TAAAGCGCTT TCCAC 15

- (2) INFORMATION FOR SEQ ID NO: 36:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 15 basepairs
 - (B) TYPE: nucleic acid basepairs
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
 - (ii) SEQUENCE DESCRIPTION: SEQ ID NO: 36:

GCTCATCCCA CACCG 15

- (2) INFORMATION FOR SEQ ID NO: 37:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 15 basepairs
 - (B) TYPE: nucleic acid basepairs

- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear
- (ii) SEQUENCE DESCRIPTION: SEQ ID NO: 37: CCGAGAGAAC CCGGA 15
- (2) INFORMATION FOR SEQ ID NO: 38:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 15 basepairs
 - (B) TYPE: nucleic acid basepairs
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
- (ii) SEQUENCE DESCRIPTION: SEQ ID NO: 38: AGTCCCCACC ATTAC 15
- (2) INFORMATION FOR SEQ ID NO: 39:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 15 basepairs
 - (B) TYPE: nucleic acid basepairs
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
- (ii) SEQUENCE DESCRIPTION: SEQ ID NO: 39: AACCTCGCGG CATCG 15
- (2) INFORMATION FOR SEQ ID NO: 40:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 15 basepairs
 - (B) TYPE: nucleic acid basepairs
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
- (ii) SEQUENCE DESCRIPTION: SEQ ID NO: 40: GGC TTTTAAG GATTC 15
- (2) INFORMATION FOR SEQ ID NO: 41:
 - (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 15 basepairs

- (B) TYPE: nucleic acid basepairs
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear
- (ii) SEQUENCE DESCRIPTION: SEQ ID NO: 41: GACCCCGATC CGAAC 15
- (2) INFORMATION FOR SEQ ID NO: 42:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 15 basepairs
 - (B) TYPE: nucleic acid basepairs
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
- (ii) SEQUENCE DESCRIPTION: SEQ ID NO: 42: CCGACTTCAC GGGGT 15
- (2) INFORMATION FOR SEQ ID NO: 43:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 15 basepairs
 - (B) TYPE: nucleic acid basepairs
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
- (ii) SEQUENCE DESCRIPTION: SEQ ID NO: 43: CGGAGGGGCA GTATC 15
- (2) INFORMATION FOR SEQ ID NO: 44:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 15 basepairs
 - (B) TYPE: nucleic acid basepairs
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
- (ii) SEQUENCE DESCRIPTION: SEQ ID NO: 44:
 GATCAATGCT CGGT 15
- (2) INFORMATION FOR SEQ. ID NO: 45:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 15 basepairs
 - (B) TYPE: nucleic acid basepairs
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
 - (ii) SEQUENCE DESCRIPTION: SEQ ID NO: 45:

TTCCCCGCGT TACCT 15

- (2) INFORMATION FOR SEQ ID NO: 46:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 15 basepairs
 - (B) TYPE: nucleic acid basepairs
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
- (ii) SEQUENCE DESCRIPTION: SEQ ID NO: 46: TTAGCCTGTT CCGGT 15
- (2) INFORMATION FOR SEQ ID NO: 47:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 15 basepairs
 - (B) TYPE: nucleic acid basepairs
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
- (ii) SEQUENCE DESCRIPTION: SEQ ID NO: 47: GCATGCGGTT TAGCC 15
- (2) INFORMATION FOR SEQ ID NO: 48:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 15 basepairs
 - (B) TYPE: nucleic acid basepairs
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
- (ii) SEQUENCE DESCRIPTION: SEQ ID NO: 48:

TACCCGGTTG TCCAT 15

- (2) INFORMATION FOR SEQ ID NO: 49:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 15 basepairs
 - (B) TYPE: nucleic acid basepairs
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
- (ii) SEQUENCE DESCRIPTION: SEQ ID NO: 49: GTAGAGCTGA GACAT 15

- (2) INFORMATION FOR SEQ ID NO: 50:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 15 basepairs
 - (B) TYPE: nucleic acid basepairs

- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear
- (ii) SEQUENCE DESCRIPTION: SEQ ID NO: 50:

GCCGTCCCAG GCCAC 15

- (2) INFORMATION FOR SEQ ID NO: 51:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 15 basepairs
 - (B) TYPE: nucleic acid basepairs
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
 - (ii) SEQUENCE DESCRIPTION: SEQ ID NO:51:

CTCGGGTGTT GATAT 15

- (2) INFORMATION FOR SEQ ID NO: 52:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 15 basepairs
 - (B) TYPE: nucleic acid basepairs
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
- (ii) SEQUENCE DESCRIPTION: SEQ ID NO: 52:

ACTATTTCAC TCCCT 15

- (2) INFORMATION FOR SEQ ID NO: 53:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 15 basepairs
 - (B) TYPE: nucleic acid basepairs
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
 - (ii) SEQUENCE DESCRIPTION: SEQ ID NO: 53:

ACGCCATCAC CCCAC 15

- (2) INFORMATION FOR SEQ ID NO: 54:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 15 basepairs

(B) TYPE: nucleic acid basepairs

- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear
- (ii) SEQUENCE DESCRIPTION: SEQ ID NO: 54: CGACGTGTCC CTGAC 15
- (2) INFORMATION FOR SEQ ID NO: 55:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 15 basepairs
 - (B) TYPE: nucleic acid basepairs
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
- (ii) SEQUENCE DESCRIPTION: SEQ ID NO: 55:

ACTACACCCC AAAGG 15

- (2) INFORMATION FOR SEQ ID NO: 56:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 15 basepairs
 - (B) TYPE: nucleic acid basepairs
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
- (ii) SEQUENCE DESCRIPTION: SEQ ID NO: 56: CACGCTTTTA CACCA 15
- (2) INFORMATION FOR SEQ ID NO: 57:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 15 basepairs
 - (B) TYPE: nucleic acid basepairs
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
- (ii) SEQUENCE DESCRIPTION: SEQ ID NO: 57: GCGACTACAC ATCCT 15
- (2) INFORMATION FOR SEQ ID NO: 58:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 15 basepairs
 - (B) TYPE: nucleic acid basepairs
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
 - (ii) SEQUENCE DESCRIPTION: SEQ ID NO: 58:

CGGCGCATAA TCACT 15

.

- (2) INFORMATION FOR SEQ ID NO: 59:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 15 basepairs
 - (B) TYPE: nucleic acid basepairs

- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear
- (ii) SEQUENCE DESCRIPTION: SEQ ID NO: 59: CCACATCCAC CGTAA 15
- (2) INFORMATION FOR SEQ ID NO: 60:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 15 basepairs
 - (B) TYPE: nucleic acid basepairs
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
- (ii) SEQUENCE DESCRIPTION: SEQ ID NO: 60: CGCTGAATGG GGGAC 15
- (2) INFORMATION FOR SEQ ID NO: 61:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 15 basepairs
 - (B) TYPE: nucleic acid basepairs
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
- (ii) SEQUENCE DESCRIPTION: SEQ ID NO: 61: GGAGCTTCGC TGAAT 15
- (2) INFORMATION FOR SEQ ID NO: 62:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 15 basepairs
 - (B) TYPE: nucleic acid basepairs
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
- (ii) SEQUENCE DESCRIPTION: SEQ ID NO: 62: CGGTCACCCG GAGCT 15

- (2) INFORMATION FOR SEQ ID NO: 63:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 15 basepairs
 - (B) TYPE: nucleic acid basepairs
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
 - (ii) SEQUENCE DESCRIPTION: SEQ ID NO: 63:

GGACGCCCAT ACACG 15

- (2) INFORMATION FOR SEQ ID NO: 64:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 15 basepairs
 - (B) TYPE: nucleic acid basepairs
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
- (ii) SEQUENCE DESCRIPTION: SEQ ID NO: 64:
 GAAGGGGAAT GGTCG 15
- (2) INFORMATION FOR SEQ ID NO: 65:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 15 basepairs
 - (B) TYPE: nucleic acid basepairs
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
- (ii) SEQUENCE DESCRIPTION: SEQ ID NO: 65:

AATCGCCACG CCCCC 15

- (2) INFORMATION FOR SEQ ID NO: 66:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 15 basepairs
 - (B) TYPE: nucleic acid basepairs
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
- (ii) SEQUENCE DESCRIPTION: SEQ ID NO: 66: CAGCGAAGGT CCCAC 15
- (2) INFORMATION FOR SEQ ID NO: 67:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 15 basepairs
 - (B) TYPE: nucleic acid basepairs

(C) STRANDEDNESS: single

- (D) TOPOLOGY: linear
- (ii) SEQUENCE DESCRIPTION: SEQ ID NO: 67: GTCACCCCAT TGCTT 15
- (2) INFORMATION FOR SEQ ID NO: 68:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 15 basepairs
 - (B) TYPE: nucleic acid basepairs
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
- (ii) SEQUENCE DESCRIPTION: SEQ ID NO: 68:
 ATCGCTCTCT ACGGG 15
- (2) INFORMATION FOR SEQ ID NO: 69:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 15 basepairs
 - (B) TYPE: nucleic acid basepairs
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
- (ii) SEQUENCE DESCRIPTION: SEQ ID NO: 69: GTGTATGTGC TCGCT 15
- (2) INFORMATION FOR SEQ ID NO: 70:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 15 basepairs
 - (B) TYPE: nucleic acid basepairs
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
- (ii) SEQUENCE DESCRIPTION: SEQ ID NO: 70: ACGGTATTCC GGGCC 15
- (2) INFORMATION FOR SEQ ID NO: 71:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 15 basepairs
 - (B) TYPE: nucleic acid basepairs
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
 - (ii) SEQUENCE DESCRIPTION: SEQ ID NO: 71:

GGCCGAATCC CGCTC 15

- (2) INFORMATION FOR SEQ ID NO: 72:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 15 basepairs
 - (B) TYPE: nucleic acid basepairs
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
 - (ii) SEQUENCE DESCRIPTION: SEQ ID NO: 72:

AAACAGTCGC TACCC 15

- (2) INFORMATION FOR SEQ ID NO: 73:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 15 basepairs
 - (B) TYPE: nucleic acid basepairs
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
- (ii) SEQUENCE DESCRIPTION: SEQ ID NO: 73:
- (2) INFORMATION FOR SEQ ID NO: 74:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 15 basepairs
 - (B) TYPE: nucleic acid basepairs
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
- (ii) SEQUENCE DESCRIPTION: SEQ ID NO: 74:
 GAGACAGTTG GGAAG 15
- (2) INFORMATION FOR SEQ ID NO: 75:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 15 basepairs
 - (B) TYPE: nucleic acid basepairs
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
- (ii) SEQUENCE DESCRIPTION: SEQ ID NO: 75: TGGCGTCTGT GCTTC 15

- (2) INFORMATION FOR SEQ ID NO: 76:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 15 basepairs
 - (B) TYPE: nucleic acid basepairs
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
 - (ii) SEQUENCE DESCRIPTION: SEQ ID NO: 76:

CGACTCCACA CAAAC 15

- (2) INFORMATION FOR SEQ ID NO: 77:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 15 basepairs
 - (B) TYPE: nucleic acid basepairs
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
- (ii) SEQUENCE DESCRIPTION: SEQ ID NO: 77:
 GATAAGGGTT CGACG 15
- (2) INFORMATION FOR SEQ ID NO: 78:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 15 basepairs
 - (B) TYPE: nucleic acid basepairs
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
- (ii) SEQUENCE DESCRIPTION: SEQ ID NO: 78: ATCCGTTGAG TGACA 15
- (2) INFORMATION FOR SEQ ID NO: 79
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 15 basepairs
 - (B) TYPE: nucleic acid basepairs
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
- (ii) SEQUENCE DESCRIPTION: SEQ ID NO: 79: CAGCCCGTTA TCCCC 15
- (2) INFORMATION FOR SEQ ID NO: 80:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 15 basepairs
 - (B) TYPE: nucleic acid basepairs

(C) STRANDEDNESS: single

- (D) TOPOLOGY: linear
- (ii) SEQUENCE DESCRIPTION: SEQ ID NO: 80:

AACCTTTGGG ACCTG 15

- (2) INFORMATION FOR SEQ ID NO: 81:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 15 basepairs
 - (B) TYPE: nucleic acid basepairs
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
 - (ii) SEQUENCE DESCRIPTION: SEQ ID NO: 81:

TAAAAGGGTG AGAAA 15

- (2) INFORMATION FOR SEQ ID NO: 82:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 15 basepairs
 - (B) TYPE: nucleic acid basepairs
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
 - (ii) SEQUENCE DESCRIPTION: SEQ ID NO: 82:

GTCTGGCCTA TCAAT 15

- (2) INFORMATION FOR SEQ ID NO: 83:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 15 basepairs
 - (B) TYPE: nucleic acid basepairs
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
 - (ii) SEQUENCE DESCRIPTION: SEQ ID NO: 83:

AGATTGCCCA CGTGT 15

- (2) FORMATION FOR SEQ ID NO: :84
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 15 basepairs
 - (B) TYPE: nucleic acid basepairs
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
 - (ii) SEQUENCE DESCRIPTION: SEQ ID NO:84:

AATCCGAGAA AACCC 15

- (2) INFORMATION FOR SEQ ID NO: 85:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 15 basepairs
 - (B) TYPE: nucleic acid basepairs

- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear
- (ii) SEQUENCE DESCRIPTION: SEQ ID NO:85:

GCATTACCCG CTGGC 15

- (2) INFORMATION FOR SEQ ID NO: 86:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 15 basepairs
 - (B) TYPE: nucleic acid basepairs
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
- (ii) SEQUENCE DESCRIPTION: SEQ ID NO: 86: TTAAAAGGAT TCGCT 15
- (2) INFORMATION FOR SEQ ID NO: 87:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 15 basepairs
 - (B) TYPE: nucleic acid basepairs
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
- (ii) SEQUENCE DESCRIPTION: SEQ ID NO: 87:

AGACCCCAAT CCGAA 15

- (2) INFORMATION FOR SEQ ID NO: 88:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 15 basepairs
 - (B) TYPE: nucleic acid basepairs
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
- (ii) SEQUENCE DESCRIPTION: SEQ ID NO: 88: GACTCCGACT TCATG 15
- (2) INFORMATION FOR SEQ ID NO: 89:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 15 basepairs
 - (B) TYPE: nucleic acid basepairs

- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear
- (ii) SEQUENCE DESCRIPTION: SEQ ID NO:89:

GTCTTTTCGT CCTGC 15

- (2) INFORMATION FOR SEQ ID NO: 90:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 15 basepairs
 - (B) TYPE: nucleic acid basepairs
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
- (ii) SEQUENCE DESCRIPTION: SEQ ID NO: 90: GTCTTATCGT CCTGC 15
- (2) INFORMATION FOR SEQ ID NO: 91:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 15 basepairs
 - (B) TYPE: nucleic acid basepairs
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
- (ii) SEQUENCE DESCRIPTION: SEQ ID NO: 91:
- (2) INFORMATION FOR SEQ ID NO: 92:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 15 basepairs
 - (B) TYPE: nucleic acid basepairs
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
- (ii) SEQUENCE DESCRIPTION: SEQ ID NO: 92: GTCTTGTCGT CCTGC 15
- (2) INFORMATION FOR SEQ ID NO: 93:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 15 basepairs
 - (B) TYPE: nucleic acid basepairs
 - (C) STRANDEDNESS: single

- (D) TOPOLOGY: linear
- (ii) SEQUENCE DESCRIPTION: SEQ ID NO: 93: GTCTATTCGT CCTGC 15
- (2) INFORMATION FOR SEQ ID NO: 94:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 15 basepairs
 - (B) TYPE: nucleic acid basepairs

- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear
- (ii) SEQUENCE DESCRIPTION: SEQ ID NO: 94: GTCTCTTCGT CCTGC 15
- (2) INFORMATION FOR SEQ ID NO: 95:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 15 basepairs
 - (B) TYPE: nucleic acid basepairs
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
- (ii) SEQUENCE DESCRIPTION: SEQ ID NO: 95: GTCTGTTCGT CCTGC 15
- (2) INFORMATION FOR SEQ ID NO: 96:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 15 basepairs
 - (B) TYPE: nucleic acid basepairs
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
- (ii) SEQUENCE DESCRIPTION: SEQ ID NO: 96: TTGGCCGGTG CTTCT 15
- (2) INFORMATION FOR SEQ ID NO: 97:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 15 basepairs
 - (B) TYPE: nucleic acid basepairs
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
 - (ii) SEQUENCE DESCRIPTION: SEQ ID NO: 97:

TTGGCCGGTA CTTCT 15

- (2) INFORMATION FOR SEQ ID NO: 98:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 15 basepairs
 - (B) TYPE: nucleic acid basepairs

- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear
- (ii) SEQUENCE DESCRIPTION: SEQ ID NO: 98:

TTGGCCGGTC CTTCT 15

- (2) INFORMATION FOR SEQ ID NO: 99:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 15 basepairs
 - (B) TYPE: nucleic acid basepairs
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
 - (ii) SEQUENCE DESCRIPTION: SEQ ID NO: 99:

TTGGCCGGTT CTTCT 15

- (2) INFORMATION FOR SEQ ID NO: 100:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 15 basepairs
 - (B) TYPE: nucleic acid basepairs
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
 - (ii) SEQUENCE DESCRIPTION: SEQ ID NO: 100:

ACCGCGGCTG CTGGC 15

- (2) INFORMATION FOR SEQ ID NO: 101:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 15 basepairs
 - (B) TYPE: nucleic acid basepairs
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
- (ii) SEQUENCE DESCRIPTION: SEQ ID NO: 101:

ACCGCGGCTA CTGGC 15

(2) INFORMATION FOR SEQ ID NO: 102:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 15 basepairs
 - (B) TYPE: nucleic acid basepairs

- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear
- (ii) SEQUENCE DESCRIPTION: SEQ ID NO: 102:

ACCGCGGCTC CTGGC 15

- (2) INFORMATION FOR SEQ ID NO: 103:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 15 basepairs
 - (B) TYPE: nucleic acid basepairs
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
- (ii) SEQUENCE DESCRIPTION: SEQ ID NO: 103:

ACCGCGGCTT CTGGC 15

- (2) INFORMATION FOR SEQ ID NO: 104:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 15 basepairs
 - (B) TYPE: nucleic acid basepairs
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
 - (ii) SEQUENCE DESCRIPTION: SEQ ID NO:104:

CGGCAGCTGG CACGT 15

- (2) INFORMATION FOR SEQ ID NO: 105:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 15 basepairs
 - (B) TYPE: nucleic acid basepairs
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
- (ii) SEQUENCE DESCRIPTION: SEQ ID NO: 105:

CGGCCGCTGG CACGT 15

- (2) INFORMATION FOR SEQ ID NO: 106:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 15 basepairs
 - (B) TYPE: nucleic acid basepairs
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear

(ii) SEQUENCE DESCRIPTION: SEQ ID NO: 106: CGGCTGCTGG CACGT 15

- (2) INFORMATION FOR SEQ ID NO: 107:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 15 basepairs
 - (B) TYPE: nucleic acid basepairs
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
 - (ii) SEQUENCE DESCRIPTION: SEQ ID NO: 107:

CGTATTACCG CAGCT 15

- (2) INFORMATION FOR SEQ ID NO: 108:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 15 basepairs
 - (B) TYPE: nucleic acid basepairs
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
- (ii) SEQUENCE DESCRIPTION: SEQ ID NO: 108: CGTATTACCG CCGCT 15
- (2) INFORMATION FOR SEQ ID NO: 109:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 15 basepairs
 - (B) TYPE: nucleic acid basepairs
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
- (ii) SEQUENCE DESCRIPTION: SEQ ID NO: 109: CGTATTACCG CTGCT 15
- (2) INFORMATION FOR SEQ ID NO: 110:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 15 basepairs
 - (B) TYPE: nucleic acid basepairs
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
 - (ii) SEQUENCE DESCRIPTION: SEQ ID NO: 110:

TTCCTTTGAG TTTTA 15

- (2) INFORMATION FOR SEQ ID NO: 111
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 15 basepairs
 - (B) TYPE: nucleic acid basepairs

- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear
- (ii) SEQUENCE DESCRIPTION: SEQ ID NO: 111:

TTCCTTTAAG TTTTA 15

- (2) INFORMATION FOR SEQ ID NO: 112:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 15 basepairs
 - (B) TYPE: nucleic acid basepairs
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
- (ii) SEQUENCE DESCRIPTION: SEQ ID NO: 112:

TTCCTTTCAG TTTTA 15

- (2) INFORMATION FOR SEQ ID NO: 113:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 15 basepairs
 - (B) TYPE: nucleic acid basepairs
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
 - (ii) SEQUENCE DESCRIPTION: SEQ ID NO: 113:

TTCCTTTTAG TTTTA 15

- (2) INFORMATION FOR SEQ ID NO: 114:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 15 basepairs
 - (B) TYPE: nucleic acid basepairs
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
 - (ii) SEQUENCE DESCRIPTION: SEQ ID NO: 114:

TTCCTTAGAG TTTTA 15

- (2) INFORMATION FOR SEQ ID NO: 115:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 15 basepairs

(B) TYPE: nucleic acid basepairs

- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear
- (ii) SEQUENCE DESCRIPTION: SEQ ID NO: 115:

TTCCTTCGAG TTTTA 15

- (2) INFORMATION FOR SEQ ID NO: 116:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 15 basepairs
 - (B) TYPE: nucleic acid basepairs
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
- (ii) SEQUENCE DESCRIPTION: SEQ ID NO: 116: TTCCTTGGAG TTTTA 15
- (2) INFORMATION FOR SEQ ID NO: 117:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 15 basepairs
 - (B) TYPE: nucleic acid basepairs
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
- (ii) SEQUENCE DESCRIPTION: SEQ ID NO: 117:

CATGTGTCCT GTGGT 15

- (2) INFORMATION FOR SEQ ID NO: 118:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 15 basepairs
 - (B) TYPE: nucleic acid basepairs
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
- (ii) SEQUENCE DESCRIPTION: SEQ ID NO: 118:

CGTCAGCCCG AGAAA 15

- (2) INFORMATION FOR SEQ ID NO: 119:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 15 basepairs
 - (B) TYPE: nucleic acid basepairs
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear

(ii) SEQUENCE DESCRIPTION: SEQ ID NO: 119: CACTACACAC GCTCG 15

- (2) INFORMATION FOR SEQ ID NO: 120:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 15 basepairs
 - (B) TYPE: nucleic acid basepairs
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
- (ii) SEQUENCE DESCRIPTION: SEQ ID NO: 120: TGGCGTTGAG GTTTC 15
- (2) INFORMATION FOR SEQ ID NO: 121:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 15 basepairs
 - (B) TYPE: nucleic acid basepairs
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
- (ii) SEQUENCE DESCRIPTION: SEQ ID NO: 121: GTCCGTGAAC CCGAT 15
- (2) INFORMATION FOR SEQ ID NO: 122:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 15 basepairs
 - (B) TYPE: nucleic acid basepairs
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
- (ii) SEQUENCE DESCRIPTION: SEQ ID NO: 122:
- TACGCTCTTT GAGCT 15
- (2) INFORMATION FOR SEQ ID NO: 123:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 15 basepairs
 - (B) TYPE: nucleic acid basepairs
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
 - (ii) SEQUENCE DESCRIPTION: SEQ ID NO: 123:

AACACTCCCT TTGGA 15